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Substitute for form 1449A/PTO

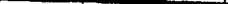
## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 6

Attorney Docket Number 56104576-23

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
PS	1	5,437,774	LAUTSEN	08/01/1995	
	2	3,878,564	YAO et al.	04/22/1975	
	3	4,036,748	KNICKEL et al.	07/19/1977	
	4	4,045,337	KNICKEL et al.	08/30/1977	
	5	4,045,455	VOGEL	08/30/1977	
	6	4,069,215	ELFERT et al.	01/17/1978	
	7	4,115,225	PARSI	09/19/1978	
	8	4,123,342	AHLGREN	10/31/1978	
	9	4,174,439	RAUENBUSCH et al.	11/13/1979	
	10	4,196,304	NAUMANN	04/01/1980	
	11	4,204,929	BIER	05/27/1980	
	12	4,217,227	ELFERT et al.	08/12/1980	
	13	4,238,306	PERRY et al.	12/09/1980	
	14	4,238,307	PERRY et al.	12/09/1980	
	15	4,252,652	ELFERT et al.	02/24/1981	
	16	4,259,079	BLUM	03/31/1981	
	17	4,269,967	ELFERT et al.	05/26/1981	
	18	4,276,140	JAIN	06/30/1981	
	19	4,279,724	HEARN et al.	07/21/1981	
	20	4,299,677	VENKATASUBRAMANIAN et al.	11/10/1981	

Examiner Signature		Date Considered	9/23/04
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Sheet 3 of 4

Substitute for form 1449A/PTO				<i>Complete if Known</i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	09/887,208
				Filing Date	
				First Named Inventor	CONLAN
				Group Art Unit	
				Examiner Name	A. PHASGE
Sheet	3	of	4	Attorney Docket Number	56104576-23

## **U.S. PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
PSP	43	5,096,547		KLOTZ et al.	03/17/1992	
	44	5,114,555		STIMPSON	05/19/1992	
	45	5,127,999		KLOTZ et al.	07/07/1997	
	46	5,160,594		HUFF et al.	11/03/1992	
	47	5,173,164		EGEN et al.	12/22/1992	
	48	5,185,086		KAALI et al.	02/09/1993	
	49	5,238,570		HUGL et al.	08/24/1993	
	50	5,277,774		SHMIDT et al.	01/11/1994	
	51	5,336,387		EGEN et al.	08/09/1994	
	52	5,340,449		SHUKLA	08/23/1994	
	53	5,352,343		BAILES et al.	10/04/1994	
	54	5,407,553		HERRON et al.	04/18/1995	
	55	5,420,047		BRANDT et al.	05/30/1995	
	56	5,441,646		HELLER et al.	08/15/1995	
	57	5,490,939		GERIGK et al.	02/13/1996	
	58	5,503,744		IKEMATSU et al.	04/02/1996	
	59	5,504,239		MEHL et al.	04/02/1996	
	60	5,558,753		GALLAGHER et al.	09/24/1996	
	61	5,561,115		TENOLD	10/01/1996	
DSP	62	5,565,102		BRANDT et al.	10/15/1996	

## **FOREIGN PATENT DOCUMENTS**

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**INFORMATION DISCLOSURE  
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Sheet 1 of 14

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			
Sheet <b>1</b> of <b>14</b>		<b>Complete If Known</b> Application Number <b>09/887,208</b> Filing Date _____ First Named Inventor <b>CONLAN et al.</b> Group Art Unit _____ Examiner Name _____ Attorney Docket Number <b>56104576-23</b>	

U.S. PATENT DOCUMENTS

Examiner Initials*	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant; Passages or Relevant Figures Appear
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1	5,437,774		LAUTSEN	08/01/1995	
2	3,878,564		YAO et al.	04/22/1975	
3	4,036,748		KNICKEL et al.	07/19/1977	
4	4,045,337		KNICKEL et al.	08/30/1977	
5	4,045,455		VOGEL	09/30/1977	
6	4,069,215		ELFERT et al.	01/17/1978	
7	4,115,225		PARSI	09/19/1978	
8	4,123,342		AHLGREN	10/31/1978	
9	4,174,439		RAUENBUSCH et al.	11/13/1979	
10	4,196,304		NAUMANN	04/01/1980	
11	4,204,926		BIER	05/27/1980	
12	4,217,227		ELFERT et al.	08/12/1980	
13	4,238,306		PERRY et al.	12/09/1980	
14	4,238,307		PERRY et al.	12/09/1980	
15	4,238,652		ELFERT et al.	02/24/1981	
16	4,269,079		BLUM	03/31/1981	
17	4,269,967		ELFERT et al.	05/26/1981	
18	4,276,140		JAIN	06/30/1981	
19	4,279,724		HEARN et al.	07/21/1981	
20	4,293,677		VENKATASUBRAMANIAN et al.	11/10/1981	

## **FOREIGN PATENT DOCUMENTS**

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		<b>Application Number</b> 09/887,208	
		<b>Filing Date</b>	
		<b>First Named Inventor</b> CONLAN et al.	
		<b>Group Art Unit</b>	
		<b>Examiner Name</b>	
		<b>Attorney Docket Number</b> 56104576-23	
Sheet	2	of	14

**U.S. PATENT DOCUMENTS**

Examiner Initials*	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appar.
	Cite No. <sup>3</sup>	Number	Kind Code (if known)		
	24	4,322,275		JAIN	03/30/1982
	25	4,362,612		BIER	12/07/1982
	26	4,376,023		VENKATSUBRAMANIAN et al.	03/08/1983
	27	4,381,232		BROWN	04/26/1983
	28	4,383,923		ELFERT	05/17/1983
	29	4,396,477		JAIN	04/02/1983
	30	4,441,978		JAIN	04/10/1984
	31	4,533,447		MELDON	08/06/1985
	32	4,608,140		GOLDSTEIN	08/26/1986
	33	4,661,224		GOLDSTEIN et al.	04/28/1987
	34	4,673,483		MANDLE	06/16/1987
	35	4,711,722		TOYOSHI et al.	12/08/1987
	36	4,746,647		SVENSON	05/24/1988
	37	4,780,411		PIEJKO et al.	10/25/1988
	38	4,897,169		BIER et al.	01/30/1990
	39	4,963,236		RODKEY et al.	10/16/1990
	40	5,043,048		MURALIDHARA	08/27/1991
	41	5,080,770		CULKIN	01/14/1992
	42	5,082,548		FAUPEL et al.	01/21/1992
	43	5,087,338		PERRY et al.	02/11/1992

## FOREIGN PATENT DOCUMENTS

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	09/887,208
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				First Named Inventor	CONLAN
				Group Art Unit	
				Examiner Name	A. PHASGE
Sheet	3	of	14	Attorney Docket Number	56104576-23

U.S. PATENT DOCUMENTS

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	Cite No.*	Kind Code* (if known)			
44	5,096,547		KLOTZ et al.	03/17/1992	
45	5,114,555		STIMPSON	05/19/1992	
46	5,127,999		KLOTZ et al.	07/07/1997	
47	5,160,594		HUFF et al.	11/03/1992	
48	5,173,164		EGEN et al.	12/22/1992	
49	5,185,086		KAALI et al.	02/09/1993	
50	5,238,570		HUGL et al.	08/24/1993	
51	5,277,774		SHMIDT et al.	01/11/1994	
52	5,336,387		EGEN et al.	08/09/1994	
53	5,340,449		SHUKLA	08/23/1994	
54	5,352,343		BAILES et al.	10/04/1994	
55	5,407,553		HERRON et al.	04/18/1995	
56	5,420,047		BRANDT et al.	05/30/1995	
57	5,441,646		HELLER et al.	08/15/1995	
58	5,490,939		GERICK et al.	02/13/1996	
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62	5,561,115		TENOLD	10/01/1996	
63	5,565,102		BRANDT et al.	10/15/1996	

## **FOREIGN PATENT DOCUMENTS**

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(use as many sheets as necessary)		09/887,208
Sheet	4	Filing Date
	of	First Named Inventor
	14	Group Art Unit
		Examiner Name
		Attorney Docket Number
		56104576-23

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Application Number T 09/887 208

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## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet 5 of 14

<p style="text-align: center;"><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p>(use as many sheets as necessary)</p> <p>Sheet <b>5</b> of <b>14</b></p>				<p style="text-align: right;"><b>Complete if Known</b></p> <table border="1"> <tr> <td><b>Application Number</b></td> <td><b>09/887,208</b></td> </tr> <tr> <td><b>Filing Date</b></td> <td></td> </tr> <tr> <td><b>First Named Inventor</b></td> <td>Brendon Conlon, et al.</td> </tr> <tr> <td><b>Group Art Unit</b></td> <td></td> </tr> <tr> <td><b>Examiner Name</b></td> <td>Arun S. Phasge</td> </tr> <tr> <td><b>Attorney Docket Number</b></td> <td><b>56104576-23</b></td> </tr> </table>		<b>Application Number</b>	<b>09/887,208</b>	<b>Filing Date</b>		<b>First Named Inventor</b>	Brendon Conlon, et al.	<b>Group Art Unit</b>		<b>Examiner Name</b>	Arun S. Phasge	<b>Attorney Docket Number</b>	<b>56104576-23</b>
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Form PTO-1449 (modified)

List of Patents and Publications  
For Applicant's Information  
Disclosure Statement

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Page 6 of 14

ATTY. DOCKET NO.

SERIAL NO.

56104576-23

09/887,208

APPLICANT Brendon CONLAN et al.

FILING DATE

GROUP ART UNIT  
Examiner.

## U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
	79	WO94/22904	13 October 94	Australia	A1		Yes

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

80	Corthals, G.L. et al, Electrophoresis, 1997, Vol. 18, No. 3-4, pages 317-323, "Prefractionation of Protein Samples Prior to Two-dimensional Electrophoresis".
81	Horvath, S.J. et al, Electrophoresis, 1996, Vol. 17, No. 1, pages 224-226, "Preparative Affinity Membrane Electrophoresis".
82	Corthals, G.L. et al, Electrophoresis, 1997, Vol. 17, No. 4, pages 771-775, "The Role of pH and Membrane Porosity in Preparative Electrophoresis".
83	Horvath, S.J. et al, Electrophoresis, 1995, Vol. 16, No. 1, pages 98-100, "Preparative Reflux Electrophoresis".
84	Horvath, S.J. et al, Electrophoresis, 1994, Vol. 15, No. 7, pages 968-971, "Multifunctional Apparatus for Electrokinetic Processing of Proteins".
85	Applied and Theoretical Electrophoresis, Vol. 3, No. 1, 1992, pages 13-16, C.W. Wrigley et al, "Rapid (Ten Minute) Pore-gradient Electrophoresis of Proteins and Peptides in Micrograd Gels".
86	Journal of Chromatography, Vol. 773, No. 1-2, 1997, pages 229-309, G.L. Corthals et al, "Purification by Reflex Electrophoresis of Whey Proteins and of a Recombinant Protein Expressed in Dictyostelium Discoideum".
87	Separation Science and Technology, Vol. 27, No. 1, 1992, pages 11-27, J.L. Schmidt et al, "Electrophoresis along a Semipermeable Membrane Surface".

EXAMINER

DATE CONSIDERED

*Applause*

9/23/04

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Information Disclosure Statement--PTO-1449 (Modified)

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Form PTO-1449 (modified)	ATTY. DOCKET NO.	SERIAL NO.
List of Patents and Publications For Applicant's Information Disclosure Statement  (Use several sheets if necessary)	56104576-23	09/887,208
	APPLICANT Brendon CONLAN et al.	
	FILING DATE	GROUP ART UNIT Examiner:
U.S. PATENT DOCUMENTS		

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
105							

FOREIGN PATENT DOCUMENTS							
EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

88	Biotechnology and Bioengineering, Vol. 30, No. 1, 1987, pages 123-137, C. Mullon et al, "Forced-flow Electrophoresis of Proteins and Viruses".
89	Journal of Chromatography, Vol. 707, No. 1, 1995, pages 77-85, K.D. Cole et al, "Free-solution Electrophoresis of Proteins in an Improved Density Gradient Column and by Capillary Electrophoresis".

EXAMINER *Aphasay* DATE CONSIDERED 9/23/04

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Page 8 of 14

<p><b>Form PTO-1449</b></p> <p><b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b></p>	<p><b>Atty. Docket No.:</b> 56104576-23</p>	<p><b>Serial No.:</b> 09/887,208</p>
<p><b>Applicant:</b> Brendon Francis Conlan et al.</p>		
<p><b>Filing Date:</b>      <b>Group Art Unit:</b></p>		

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Form PTO-1449  INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Attorney Docket No.  56104576-23	Serial No.:  09/887,208
Applicant: Brendon Conlan, et al.		
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	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION? (YES/NO)
100	94/22904	10/13/94	WO			

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

- 101 Corthals, G.L. et al., Electrophoresis, 1997, Vol. 18, No. 3-4 pages 317-  
323, "Prefractionation of Protein Samples Prior to Two-Dimensional  
Electrophoresis".

102 Horvath, S.J. et al., Electrophoresis, 1996, Vol. 17, No. 1, pages 224-226,  
"Preparative Affinity Membrane Electrophoresis".

103 International Search Report Dated 5/2/00

104 Corthals, G.L. et al., Electrophoresis, 1997, Vol. 17, No. 4, pages 771-775,  
"The Role of pH and Membrane Porosity in Preparative Electrophoresis".

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Form PTO-1449 <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>	Attorney Docket No. 56104576-23	Serial No.: 09/887,208
	Applicant: Brendon Conlan, et al.	
	Filing Date:	Group Art Unit: 14

**U. S. PATENT DOCUMENTS**

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION? (YES/NO)

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

- 105 Horvath, S.J. et al. Electrophoresis, 1995, Vol. 16, No. 1, pages 98-100,  
"Preparative Reflux Electrophoresis".

106 Horvath, S.J. et al., Electrophoresis, 1994, Vol. 15, No. 7, pages 968-971,  
"Multifunctional Apparatus for Electrokinetic Processing of Proteins".

107 Applied and Theoretical Electrophoresis, Vol. 3, No. 1, 1992, pages 13-16,  
C.W. Wrigley et al, "Rapid (Ten Minute) Pore-gradient Electrophoresis of  
Proteins and Peptides in Micrograd Gels".

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<b>Applicant:</b> Brendon Conlan, et al.		
<b>Filing Date:</b>		<b>Group Art Unit:</b>

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		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION? (YES/NO)

**OTHER DOCUMENTS** (including Author, Title, Date, Pertinent Pages, Etc.)

- 108 Journal of Chromatography, Vol. 773, No. 1-2, 1997, pages 229-309, G.L. Corthals et al., "Purification by Reflex Electrophoresis of Whey Proteins and of a Recombinant Protein Expressed in *Dictyostelium Discoideum*".

109 Separation Science and Technology, Vol. 27, No. 1, 1992, pages 11-27, J.L. Schmidt et al., "Electrophoresis Along a Semipermeable Membrane Surface".

110 Journal of Chromatography, Vol. 707, No. 1, 1995, pages 77-85, K.D. Cole et al., "Free-Solution Electrophoresis of Proteins in an Improved Density Gradient Column and by Capillary Electrophoresis".

111 Biotechnology and Bioengineering, Vol. 30, No. 1, 1987, pages 123-137, C. Mylon et al., "Forced-Flow Electrophoresis of Proteins and Viruses".

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	Application/Control No. 09/887,208	Applicant CONLAN ET AL.
	Examiner Arun S. Phasge	Art Unit Page 13 of 14

U.S. PATENT DOCUMENTS

## **FOREIGN PATENT DOCUMENTS**

## **NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
115		Mullon et al., "Forced-Flow Electrophoresis of Proteins and Viruses" (1987) Biotechnology and Bioengineering, Vol. XXX, Pp 123-137.

**U.S. Patent and Trademark Office**

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PTO/SB/08A (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

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## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 14 of 14

<b>Complete if Known</b>	
Application Number	09/887,208
Filing Date	
First Named Inventor	CONLAN
Art Unit	
Examiner Name	
Attorney Docket Number	56104576-23

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	FOREIGN PATENT DOCUMENTS			
		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>a</sup> Number <sup>b</sup> Kind Code <sup>c</sup> (# known)			
	119	UK 2118975A	2/16/83		
	120	WO 93/06475	4/1/93		
	121	EP 0369945A2	11/9/89		
	122	DE 4116179A1	11/19/92		
	123	EP 0477541B1	8/23/91		

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